

Frequency Mixer

HJK-ED9142/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=255MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
410.1	155.1	12.69	10.86	9.21
480.1	225.1	7.43	7.01	6.87
550.1	295.1	7.35	7.14	7.20
620.1	365.1	8.09	7.59	7.36
690.1	435.1	8.81	8.10	7.68
760.1	505.1	9.32	8.49	8.06
830.1	575.1	9.92	9.02	8.56
900.1	645.1	9.84	8.80	8.37
970.1	715.1	9.75	8.80	8.36
1040.1	785.1	9.65	8.72	8.32
1100.1	845.1	9.58	8.67	8.26
1170.1	915.1	9.45	8.47	8.06
1230.1	975.1	9.49	8.59	8.30
1300.1	1045.1	9.32	8.65	8.37
1360.1	1105.1	9.04	8.35	7.99
1430.1	1175.1	8.83	8.26	7.96
1490.1	1235.1	8.57	8.15	7.97
1560.1	1305.1	8.27	7.96	7.86
1620.1	1365.1	8.27	7.99	7.92
1690.1	1435.1	8.13	7.95	7.95
1750.1	1495.1	7.98	7.88	7.97
1820.1	1565.1	7.99	7.93	8.04
1880.1	1625.1	7.91	7.88	8.03
1950.1	1695.1	8.02	8.06	8.23
2010.1	1755.1	8.30	8.34	8.51
2080.1	1825.1	8.47	8.52	8.68
2140.1	1885.1	8.56	8.66	8.87
2210.1	1955.1	8.61	8.69	8.89
2270.1	2015.1	8.64	8.71	8.91
2340.1	2085.1	8.73	8.83	9.10
2400.1	2145.1	8.76	8.79	9.00
2470.1	2215.1	8.84	8.79	8.95
2530.1	2275.1	9.12	9.11	9.31
2600.1	2345.1	9.25	9.18	9.34
2660.1	2405.1	9.37	9.13	9.19
2730.1	2475.1	9.77	9.50	9.54
2790.1	2535.1	9.92	9.60	9.59
2860.1	2605.1	10.29	9.82	9.66
2920.1	2665.1	10.95	10.43	10.22
2990.1	2735.1	11.36	10.79	10.58

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
410.1	155.1	16.45	21.45	19.04
480.1	225.1	19.63	21.59	22.99
550.1	295.1	19.32	21.05	23.04
620.1	365.1	18.78	21.30	22.60
690.1	435.1	17.62	19.56	21.91
760.1	505.1	15.27	15.86	16.88
830.1	575.1	16.41	20.51	20.93
900.1	645.1	19.46	20.64	23.16
970.1	715.1	20.89	21.14	23.66
1040.1	785.1	21.29	21.47	23.80
1100.1	845.1	21.69	21.97	23.42
1170.1	915.1	21.18	22.55	24.19
1230.1	975.1	20.96	24.01	27.84
1300.1	1045.1	21.90	24.21	25.18
1360.1	1105.1	22.66	25.02	27.48
1430.1	1175.1	23.05	25.85	27.85
1490.1	1235.1	23.10	25.94	28.50
1560.1	1305.1	23.44	26.31	29.88
1620.1	1365.1	24.49	27.57	31.28
1690.1	1435.1	25.63	28.55	32.45
1750.1	1495.1	26.54	30.16	34.03
1820.1	1565.1	27.93	31.49	33.26
1880.1	1625.1	27.90	31.51	34.60
1950.1	1695.1	27.96	33.15	35.50
2010.1	1755.1	28.26	34.25	36.36
2080.1	1825.1	27.41	33.57	37.57
2140.1	1885.1	26.23	31.20	36.22
2210.1	1955.1	24.75	28.31	33.67
2270.1	2015.1	23.96	27.36	31.38
2340.1	2085.1	23.45	26.26	29.75
2400.1	2145.1	23.16	25.94	29.23
2470.1	2215.1	22.60	25.28	29.06
2530.1	2275.1	22.07	24.63	28.26
2600.1	2345.1	21.59	24.69	28.46
2660.1	2405.1	21.12	24.33	28.33
2730.1	2475.1	20.80	23.65	27.87
2790.1	2535.1	19.98	22.92	27.14
2860.1	2605.1	19.37	22.38	26.45
2920.1	2665.1	18.83	21.75	25.47
2990.1	2735.1	18.05	20.85	23.96

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=0dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
410.1	155.1	-3.32	-0.64	0.01
480.1	225.1	0.13	0.09	0.07
550.1	295.1	0.19	0.10	0.06
620.1	365.1	0.17	0.11	0.07
690.1	435.1	0.21	0.12	0.05
760.1	505.1	0.18	0.11	0.06
830.1	575.1	0.19	0.15	0.08
900.1	645.1	0.18	0.10	0.05
970.1	715.1	0.14	0.08	0.05
1040.1	785.1	0.14	0.07	0.05
1100.1	845.1	0.09	0.07	0.04
1170.1	915.1	0.06	0.05	0.04
1230.1	975.1	0.08	0.05	0.02
1300.1	1045.1	0.08	0.04	0.02
1360.1	1105.1	0.06	0.03	0.02
1430.1	1175.1	0.03	0.02	0.01
1490.1	1235.1	0.01	0.02	0.01
1560.1	1305.1	0.01	0.01	0.01
1620.1	1365.1	0.00	0.00	0.01
1690.1	1435.1	0.00	0.00	0.00
1750.1	1495.1	0.00	0.00	0.01
1820.1	1565.1	0.01	0.01	0.00
1880.1	1625.1	0.01	0.01	0.00
1950.1	1695.1	0.00	0.00	0.01
2010.1	1755.1	0.00	0.00	0.00
2080.1	1825.1	-0.01	0.00	0.01
2140.1	1885.1	-0.01	0.00	0.00
2210.1	1955.1	-0.01	0.00	0.00
2270.1	2015.1	-0.01	0.00	0.00
2340.1	2085.1	-0.01	-0.01	0.00
2400.1	2145.1	-0.01	0.00	0.00
2470.1	2215.1	0.01	0.00	0.00
2530.1	2275.1	0.01	0.00	0.00
2600.1	2345.1	0.02	0.00	0.00
2660.1	2405.1	0.02	0.01	0.00
2730.1	2475.1	0.04	0.01	0.01
2790.1	2535.1	0.04	0.01	0.00
2860.1	2605.1	0.02	0.01	0.01
2920.1	2665.1	0.01	0.01	0.01
2990.1	2735.1	-0.01	0.00	0.01

REV. X2

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1750MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1679.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1815.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1190.0	560.0	10.61	10.1	1690.0	8.77	1410.1	405.0	10.14
1126.8	623.2	10.26	30.5	1710.4	8.16	1369.5	445.6	10.44
1063.6	686.4	9.86	50.9	1730.8	7.92	1328.9	486.2	10.69
1000.4	749.6	9.62	71.2	1751.1	7.98	1288.4	526.7	10.87
937.1	812.9	9.34	91.6	1771.5	7.89	1247.8	567.3	10.67
873.9	876.1	9.11	112.0	1791.9	7.89	1207.2	607.9	10.45
810.7	939.3	9.53	132.4	1812.3	7.83	1166.6	648.5	10.22
747.5	1002.5	9.40	152.7	1832.6	7.80	1126.0	689.1	10.22
684.3	1065.7	9.44	173.1	1853.0	7.65	1085.5	729.6	10.01
621.1	1128.9	9.07	193.5	1873.4	7.68	1044.9	770.2	9.74
557.9	1192.1	8.61	213.9	1893.8	7.61	1004.3	810.8	9.62
494.6	1255.4	8.28	234.3	1914.2	7.50	963.7	851.4	9.36
431.4	1318.6	8.10	275.0	1954.9	7.71	923.1	892.0	9.23
368.2	1381.8	8.14	295.4	1975.3	7.79	882.6	932.5	9.43
305.0	1445.0	7.94	336.1	2016.0	7.98	842.0	973.1	9.69
241.8	1508.2	7.79	356.5	2036.4	8.01	801.4	1013.7	9.84
178.6	1571.4	7.99	397.3	2077.2	8.18	760.8	1054.3	9.65
115.4	1634.6	7.92	417.6	2097.5	8.23	720.2	1094.9	9.42
52.1	1697.9	8.05	458.4	2138.3	8.27	679.7	1135.4	9.18
10.0	1760.0	8.71	478.8	2158.7	8.37	639.1	1176.0	9.00
66.8	1816.8	7.89	519.5	2199.4	8.55	598.5	1216.6	8.76
123.6	1873.6	7.70	539.9	2219.8	8.67	557.9	1257.2	8.54
180.4	1930.4	7.65	580.7	2260.6	8.96	517.3	1297.8	8.36
237.1	1987.1	7.54	601.0	2280.9	8.95	497.1	1318.0	8.22
293.9	2043.9	7.80	641.8	2321.7	9.12	456.5	1358.6	8.21
350.7	2100.7	8.16	662.2	2342.1	9.27	436.2	1378.9	8.27
407.5	2157.5	8.33	702.9	2382.8	9.34	395.6	1419.5	8.21
464.3	2214.3	8.44	723.3	2403.2	9.44	375.3	1439.8	8.11
521.1	2271.1	8.70	764.1	2444.0	9.57	334.7	1480.4	8.06
577.9	2327.9	9.01	784.4	2464.3	9.65	314.4	1500.7	7.95
634.6	2384.6	9.32	825.2	2505.1	9.82	273.9	1541.2	7.99
691.4	2441.4	9.49	845.6	2525.5	9.81	253.6	1561.5	7.92
729.3	2479.3	9.59	886.3	2566.2	9.90	213.0	1602.1	7.98
786.1	2536.1	9.75	906.7	2586.6	9.97	192.7	1622.4	8.05
823.9	2573.9	9.92	947.5	2627.4	9.88	152.1	1663.0	7.97
880.7	2630.7	9.91	967.8	2647.7	9.88	131.8	1683.3	8.00
918.6	2668.6	10.04	1008.6	2688.5	9.99	91.3	1723.8	7.98
975.4	2725.4	9.99	1029.0	2708.9	10.07	71.0	1744.1	8.02
1013.2	2763.2	10.19	1069.7	2749.6	10.17	30.4	1784.7	8.22
1070.0	2820.0	10.53	1090.1	2770.0	10.38	10.1	1805.0	8.80

Frequency Mixer

HJK-ED9142/2

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
155.1	69.72	70.39	70.52	58.46	58.70	58.99
225.1	57.49	58.02	58.77	47.48	48.13	48.54
295.1	54.49	55.25	56.00	45.44	45.89	46.40
365.1	53.00	54.46	55.24	47.38	47.93	48.46
435.1	51.30	51.93	53.14	47.88	48.15	48.46
505.1	47.51	47.56	47.84	46.58	45.82	45.50
575.1	48.59	48.58	48.84	46.01	45.85	46.02
645.1	49.52	49.75	50.40	47.22	46.83	46.73
715.1	48.27	48.85	49.26	46.87	46.56	45.86
785.1	46.83	47.92	48.21	46.45	45.85	44.91
845.1	45.32	46.23	46.62	46.25	45.36	44.34
915.1	43.13	44.08	44.14	46.00	44.83	43.65
975.1	41.36	41.21	41.40	46.64	45.65	45.37
1045.1	39.35	39.39	39.35	49.50	48.88	48.44
1105.1	39.10	39.42	40.09	51.94	50.19	48.69
1175.1	38.82	39.54	40.01	44.65	44.20	43.75
1235.1	38.11	38.81	39.45	42.61	42.11	41.58
1305.1	38.13	38.88	39.46	41.50	41.10	40.71
1365.1	38.58	39.45	40.95	41.67	41.04	40.79
1435.1	39.57	41.00	42.95	43.27	42.54	42.43
1495.1	45.42	52.98	59.78	44.10	43.15	42.88
1565.1	43.37	41.02	38.77	41.60	40.71	40.30
1625.1	36.18	35.37	34.57	38.22	37.48	37.16
1695.1	31.83	31.50	31.25	34.59	34.05	33.79
1755.1	29.89	29.76	29.60	32.11	31.83	31.71
1825.1	28.78	28.72	28.23	30.10	29.94	29.49
1885.1	28.56	28.38	28.00	29.05	28.71	28.36
1955.1	28.33	28.23	27.72	28.50	28.17	27.66
2015.1	28.55	28.14	27.92	29.18	28.40	28.07
2085.1	29.60	29.49	29.11	30.30	29.70	29.19
2145.1	31.04	31.19	31.07	31.81	31.23	30.66
2215.1	32.00	32.21	32.20	33.74	33.44	33.00
2275.1	32.93	33.26	33.37	34.90	35.13	35.01
2345.1	34.61	35.03	35.51	35.61	36.44	37.19
2405.1	35.51	35.97	36.52	35.20	36.35	37.50
2475.1	36.39	36.98	37.39	33.84	34.89	35.83
2535.1	37.16	37.99	38.35	32.51	33.50	34.27
2605.1	37.25	38.05	38.51	31.33	32.20	32.81
2665.1	36.57	37.38	37.70	30.48	31.32	31.99
2735.1	36.00	36.75	37.15	29.74	30.60	31.27

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
410.1	155.1	44.02	39.27	37.04
480.1	225.1	36.79	36.28	36.03
550.1	295.1	37.83	37.61	37.72
620.1	365.1	42.74	43.32	44.31
690.1	435.1	43.39	43.18	40.47
760.1	505.1	45.51	45.57	46.35
830.1	575.1	45.61	48.23	44.30
900.1	645.1	44.27	52.72	47.23
970.1	715.1	47.72	45.43	34.40
1040.1	785.1	43.51	45.40	35.55
1100.1	845.1	39.08	41.04	34.15
1170.1	915.1	32.42	33.13	34.35
1230.1	975.1	29.76	29.57	29.85
1300.1	1045.1	29.39	28.93	28.32
1360.1	1105.1	32.58	31.41	30.41
1430.1	1175.1	34.18	33.19	32.79
1490.1	1235.1	37.59	36.46	36.36
1560.1	1305.1	38.95	37.92	37.73
1620.1	1365.1	36.82	36.26	36.54
1690.1	1435.1	34.64	34.11	34.21
1750.1	1495.1	33.37	32.71	32.49
1820.1	1565.1	33.97	33.37	33.13
1880.1	1625.1	35.70	34.89	34.51
1950.1	1695.1	37.64	35.60	34.33
2010.1	1755.1	35.64	33.34	31.71
2080.1	1825.1	32.52	30.47	29.12
2140.1	1885.1	31.07	29.15	27.96
2210.1	1955.1	30.83	28.85	27.62
2270.1	2015.1	30.69	28.61	27.48
2340.1	2085.1	30.20	28.41	27.18
2400.1	2145.1	29.77	28.20	27.14
2470.1	2215.1	29.20	27.74	26.81
2530.1	2275.1	28.79	27.42	26.63
2600.1	2345.1	27.95	26.72	26.10
2660.1	2405.1	27.27	26.22	25.67
2730.1	2475.1	26.67	25.84	25.20
2790.1	2535.1	26.17	25.47	24.93
2860.1	2605.1	25.84	25.27	24.77
2920.1	2665.1	25.90	25.57	25.17
2990.1	2735.1	25.86	25.94	25.76

Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1805MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
410.1	155.1	1.78	1.55	1.31	155.1	62.05	62.05	62.05	10.0	1.20	1.30	1.34
480.1	225.1	1.15	1.19	1.25	225.1	22.00	21.46	20.95	50.0	1.17	1.27	1.31
550.1	295.1	1.30	1.35	1.40	295.1	17.93	18.30	18.50	90.0	1.20	1.31	1.34
620.1	365.1	1.50	1.47	1.48	365.1	32.18	32.79	33.42	130.0	1.15	1.24	1.28
690.1	435.1	1.75	1.67	1.63	435.1	42.38	42.38	41.37	170.0	1.19	1.27	1.30
760.1	505.1	2.01	1.89	1.84	505.1	43.44	43.44	41.37	210.0	1.17	1.25	1.28
830.1	575.1	1.98	1.78	1.76	575.1	43.44	43.44	43.44	250.0	1.24	1.28	1.30
900.1	645.1	2.17	1.94	1.87	645.1	41.37	40.41	40.41	290.0	1.24	1.29	1.30
970.1	715.1	2.36	2.14	2.05	715.1	38.61	37.77	36.20	330.0	1.28	1.30	1.30
1040.1	785.1	2.46	2.23	2.14	785.1	37.77	37.77	36.97	370.0	1.33	1.35	1.34
1100.1	845.1	2.54	2.30	2.19	845.1	36.20	35.46	34.75	410.0	1.35	1.35	1.34
1170.1	915.1	2.64	2.36	2.25	915.1	30.49	29.96	28.49	450.0	1.41	1.39	1.37
1230.1	975.1	2.59	2.31	2.19	975.1	29.96	29.46	28.96	490.0	1.42	1.40	1.36
1300.1	1045.1	2.49	2.24	2.11	1045.1	27.16	26.74	26.33	530.0	1.45	1.41	1.36
1360.1	1105.1	2.47	2.25	2.13	1105.1	22.58	22.00	20.95	570.0	1.51	1.47	1.41
1430.1	1175.1	2.31	2.10	1.98	1175.1	19.98	19.54	18.90	610.0	1.51	1.45	1.36
1490.1	1235.1	2.18	1.97	1.85	1235.1	17.75	17.39	17.05	650.0	1.58	1.51	1.41
1560.1	1305.1	2.01	1.82	1.72	1305.1	13.09	12.71	12.26	690.0	1.57	1.50	1.40
1620.1	1365.1	1.81	1.64	1.56	1365.1	10.50	10.19	9.85	730.0	1.65	1.56	1.43
1690.1	1435.1	1.66	1.50	1.43	1435.1	7.83	7.60	7.44	790.0	1.65	1.57	1.45
1750.1	1495.1	1.53	1.39	1.32	1495.1	5.68	5.52	5.39	830.0	1.71	1.61	1.47
1820.1	1565.1	1.34	1.22	1.18	1565.1	3.91	3.79	3.69	890.0	1.72	1.62	1.47
1880.1	1625.1	1.24	1.12	1.10	1625.1	2.96	2.89	2.83	930.0	1.80	1.69	1.53
1950.1	1695.1	1.14	1.05	1.11	1695.1	2.18	2.14	2.12	990.0	1.70	1.58	1.44
2010.1	1755.1	1.05	1.06	1.16	1755.1	1.88	1.87	1.87	1030.0	1.77	1.66	1.51
2080.1	1825.1	1.04	1.10	1.19	1825.1	1.99	2.02	2.04	1090.0	1.67	1.57	1.45
2140.1	1885.1	1.03	1.13	1.22	1885.1	2.38	2.43	2.47	1130.0	1.68	1.58	1.47
2210.1	1955.1	1.07	1.19	1.30	1955.1	3.01	3.08	3.14	1190.0	1.65	1.57	1.45
2270.1	2015.1	1.08	1.22	1.33	2015.1	3.55	3.62	3.67	1230.0	1.65	1.58	1.48
2340.1	2085.1	1.11	1.26	1.41	2085.1	4.16	4.21	4.21	1290.0	1.55	1.48	1.41
2400.1	2145.1	1.18	1.36	1.51	2145.1	4.83	4.91	4.98	1330.0	1.55	1.50	1.45
2470.1	2215.1	1.21	1.39	1.56	2215.1	5.31	5.39	5.42	1390.0	1.50	1.47	1.44
2530.1	2275.1	1.24	1.43	1.60	2275.1	5.36	5.38	5.33	1430.0	1.52	1.50	1.51
2600.1	2345.1	1.35	1.55	1.73	2345.1	5.65	5.68	5.72	1490.0	1.56	1.55	1.57
2660.1	2405.1	1.38	1.57	1.74	2405.1	5.65	5.66	5.68	1530.0	1.59	1.61	1.65
2730.1	2475.1	1.49	1.66	1.83	2475.1	5.14	5.13	5.06	1590.0	1.61	1.64	1.68
2790.1	2535.1	1.64	1.80	1.96	2535.1	4.99	4.99	4.99	1630.0	1.70	1.73	1.79
2860.1	2605.1	1.78	1.91	2.05	2605.1	4.63	4.63	4.63	1690.0	1.78	1.83	1.89
2920.1	2665.1	1.96	2.05	2.16	2665.1	4.01	3.97	3.90	1730.0	1.85	1.92	1.99
2990.1	2735.1	2.25	2.33	2.41	2735.1	3.47	3.45	3.42	1790.0	1.80	1.86	1.91

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Harmonics Tables

RF HARMONICS ORDER	(-dBm)		(-dBc)									
	0	1	2	3	4	5	6	7	8	9	10	11
0	-	-	17	33	38	32	36	33	47	42	46	59
1	-	25	+0	31	19	39	26	43	38	56	44	52
2	68	70	57	52	46	57	70	54	54	61	63	56
3	>90	68	69	66	56	59	59	68	58	66	67	80
4	>90	>82	>82	>82	>82	80	80	77	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	81	>82	>82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
RF CAL		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1750 MHz; 0.00 dBm.

LO IN: 1495 MHz; +17.00 dBm

IF OUT: 255 MHz; -7.65 dBm

RF HARMONICS ORDER	(-dBm)		(-dBc)									
	0	1	2	3	4	5	6	7	8	9	10	11
0	-	-	27	45	47	59	53	43	54	50	54	68
1	-	25	+0	33	20	41	28	46	41	58	50	54
2	48	55	52	43	37	50	57	51	46	56	58	54
3	>90	53	50	49	36	46	41	57	44	54	54	76
4	>90	72	70	68	64	58	56	55	68	60	59	68
5	>90	77	69	69	70	65	58	56	64	64	64	66
6	>90	88	90	>92	90	92	77	76	71	66	77	73
7	>90	>92	>92	>92	86	92	85	81	>92	72	75	77
8	>90	>92	>92	>92	>92	>92	>92	>92	>92	86	82	83
9	>90	>92	>92	>92	>92	>92	>92	>92	92	>92	>92	85
10	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
RF CAL		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1750 MHz; 10.00 dBm.

LO IN: 1495 MHz; +17.00 dBm

IF OUT: 255 MHz; 2.26 dBm

Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.

2. + entry denotes harmonics are in (dBc) above IF OUTPUT.

3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

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